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|---|---|---|------------------|-------------------------|------------------|-----------------|------------------|----------------|
| FORM PTO-1390 (Modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE<br>(REV. 11-2000)  |   | ATTORNEY'S DOCKET NUMBER<br>PU020066  |                  |                         |                  |                 |                  |                |
| <b>TRANSMITTAL LETTER TO THE UNITED STATES<br/>         DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING<br/>         A FILING UNDER 35 U.S.C. 371</b>   |   | U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR<br><div style="font-size: 1.5em; font-weight: bold; text-align: center;">10/509215</div> |                  |                         |                  |                 |                  |                |
| INTERNATIONAL APPLICATION NO.<br>PCT/US03/08614   | INTERNATIONAL FILING DATE<br>19-MAR-2003 (19.03.2003) | PRIORITY DATE CLAIMED<br>27.03.2002   |                  |                         |                  |                 |                  |                |
| TITLE OF INVENTION<br><br>UPCONVERSION WITH NOISE CONSTRAINED DIAGONAL ENHANCEMENT  |   |   |                  |                         |                  |                 |                  |                |
| APPLICANT(S) FOR DO/EO/US<br>LUFKIN John Kimball  |   |   |                  |                         |                  |                 |                  |                |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:   |   |   |                  |                         |                  |                 |                  |                |
| <ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.</li> <li>4. <input checked="" type="checkbox"/> The US has been elected by the expiration of 19 months from the priority date (Article 31).</li> <li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c) (2))           <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input checked="" type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).           <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ol> </li> <li>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))           <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input checked="" type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).</li> <li>10. <input checked="" type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).</li> <li>11. <input type="checkbox"/> A copy of the International Preliminary Examination Report (PCT/IPEA/409).</li> <li>12. <input checked="" type="checkbox"/> A copy of the International Search Report (PCT/ISA/210).</li> </ol> |   |   |                  |                         |                  |                 |                  |                |
| <b>Items 13 to 20 below concern document(s) or information included:</b>  |   |   |                  |                         |                  |                 |                  |                |
| <ol style="list-style-type: none"> <li>13. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li> <li>14. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li>15. <input checked="" type="checkbox"/> A <b>FIRST</b> preliminary amendment.</li> <li>16. <input type="checkbox"/> A <b>SECOND</b> or <b>SUBSEQUENT</b> preliminary amendment.</li> <li>17. <input type="checkbox"/> A substitute specification.</li> <li>18. <input type="checkbox"/> A change of power of attorney and/or address letter.</li> <li>19. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825.</li> <li>20. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4).</li> <li>21. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</li> <li>22. <input checked="" type="checkbox"/> Certificate of Mailing by Express Mail</li> <li>23. <input checked="" type="checkbox"/> Other items or information:</li> </ol>   |   |   |                  |                         |                  |                 |                  |                |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; padding: 2px;">Return Postcard Receipt</td> <td style="width: 30%; padding: 2px;">EXPRESS MAIL NO:</td> <td style="width: 30%; padding: 2px;">EV 425038833 US</td> <td style="width: 10%; padding: 2px;">DATE OF DEPOSIT:</td> <td style="width: 10%; padding: 2px;">Sept. 24, 2004</td> </tr> </table>  |   |   |                  | Return Postcard Receipt | EXPRESS MAIL NO: | EV 425038833 US | DATE OF DEPOSIT: | Sept. 24, 2004 |
| Return Postcard Receipt   | EXPRESS MAIL NO:                                      | EV 425038833 US   | DATE OF DEPOSIT: | Sept. 24, 2004          |                  |                 |                  |                |

|  |              |  |   |  |       |
|--|--------------|--|---|--|-------|
| U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR 1.53(b)(1))   |              | INTERNATIONAL APPLICATION NO. PCT US03/08614 |   | ATTORNEY'S DOCKET NUMBER PU020066  |       |
| 24. The following fees are submitted:<br><b>BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)) :</b><br><input type="checkbox"/> Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO . . . . . \$1,080.00<br><input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO . . . . . \$920.00<br><input checked="" type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO . . . . . \$770.00<br><input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4) . . . . . \$730.00<br><input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) . . . . . \$100.00 |              |  |   | <b>CALCULATIONS PTO USE ONLY</b><br><br><div style="border: 1px solid black; height: 100px; width: 100%;"></div> |       |
| ENTER APPROPRIATE BASIC FEE AMOUNT =   |              |  |   | 770.00   |       |
| Surcharge of \$130.00 for furnishing the oath or declaration later than months from the earliest claimed priority date (37 CFR 1.492 (e)).   |              |  |   | <input type="checkbox"/> 20 <input type="checkbox"/> 30  |       |
| CLAIMS   | NUMBER FILED | NUMBER EXTRA                                 | RATE  |  |       |
| Total claims   | 15- 20 =     | 0  | X \$18.00   |  |       |
| Independent claims   | 2- 3 =       | 0  | X \$86.00   |  |       |
| Multiple Dependent Claims (check if applicable).   |              |  | <input type="checkbox"/>                                |  |       |
| TOTAL OF ABOVE CALCULATIONS =  |              |  |   | 770.00   |       |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.   |              |  |   |  |       |
| SUBTOTAL =   |              |  |   | 770.00   |       |
| Processing fee of \$130.00 for furnishing the English translation later than months from the earliest claimed priority date (37 CFR 1.492 (f)).  |              |  | <input type="checkbox"/> 20 <input type="checkbox"/> 30 |  |       |
| TOTAL NATIONAL FEE =   |              |  |   | 770.00   |       |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) (check if applicable).  |              |  | <input checked="" type="checkbox"/>                     |  | 40.00 |
| TOTAL FEES ENCLOSED =  |              |  |   | 810.00   |       |
|  |              |  |   | Amount to be refunded  |       |
|  |              |  |   | charged  |       |
|  |              |  |   | 810.00   |       |

- a. ☐ A check in the amount of \_\_\_\_\_ to cover the above fees is enclosed.
- b. ☒ Please charge my Deposit Account No. 07-0832 in the amount of \$810.00 to cover the above fees.  
A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 07-0832 A duplicate copy of this sheet is enclosed.
- d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. **Credit card information should not be included on this form.** Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

**SEND ALL CORRESPONDENCE TO:**

**Mr. Joseph S. Tripoli**  
**Thomson Licensing Inc.**  
**Patent Department**  
**P.O. Box 5312**  
**Princeton, NJ 08543-5312**

CHRISTINE JOHNSON

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9/24/04

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